

Comparisons of Job Characteristics

Focus Occupation: Environmental Engineering Technicians (17-3025)

Associated Occupation: Conservation Scientists (19-1031)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 55

Focus Occupation: Environmental Engineering Technicians (17-3025)

Associated Occupation: Conservation Scientists (19-1031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Biology	3.7	16.2	6.8	<<	Extensive education and/or training may be required
Geography	3.9	14.3	6.2	<<	Extensive education and/or training may be required
Law and Government	5.9	11.4	9.5	<	Expanded education and/or training may be required
History and Archeology	2.6	9.0	1.7	<<	Extensive education and/or training may be required
Food Production	2.1	5.5	1.4	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Environmental Engineering Technicians (17-3025)

Associated Occupation: Conservation Scientists (19-1031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Science	4.5	9.3	8.3	<	A higher skill level may be required
Systems Analysis	6.5	9.3	7.5	<	A higher skill level may be required
Operations Analysis	5.0	9.0	6.2	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Environmental Engineering Technicians (17-3025)

Associated Occupation: Conservation Scientists (19-1031)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Oral Expression	12.4	14.7	12.7	<	Some improvement in abilities may be required
Oral Comprehension	12.5	14.0	14.4	0	Current ability level may be sufficient
Written Comprehension	11.0	13.7	16.6	>	Current ability level is likely sufficient
Problem Sensitivity	11.1	13.0	15.9	>	Current ability level is likely sufficient
Speech Clarity	10.2	12.7	10.4	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	12.6	14.5	>	Current ability level is likely sufficient
Inductive Reasoning	10.2	12.2	13.6	>	Current ability level is likely sufficient
Written Expression	9.8	12.1	12.0	0	Current ability level may be sufficient
Speech Recognition	9.9	12.0	9.8	<	Some improvement in abilities may be required
Far Vision	7.8	10.5	9.4	<	Some improvement in abilities may be required
Originality	7.6	10.1	8.2	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 73

Focus Occupation: Environmental Engineering Technicians (17-3025)

Associated Occupation: Conservation Scientists (19-1031)

Work Activities	Exclusivity of Activity
Analyze scientific research data or investigative findings	27
Calculate engineering specifications	64
Communicate technical information	4
Develop plans for programs or projects	31
Explain complex mathematical information	30
Maintain records, reports, or files	5
Prepare technical reports or related documentation	22
Record test results, test procedures, or inspection data	48
Use building or land use regulations	65
Use government regulations	44
Use pollution control techniques	62
Use scientific research methodology	21

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 87

Focus Occupation: Environmental Engineering Technicians (17-3025)
Associated Occupation: Conservation Scientists (19-1031)

Tools and Technologies	Exclusivity
Audio and visual equipment	4
Cameras	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Industry specific software	1
Information exchange software	1
Network applications software	1
Sampling equipment	12
Soil measuring equipment	20

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.